Att rney Docket N . 0756-1790

#### INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Toshimitsu KONUNMA et al.

Filing Date: April 14, 1998

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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
DN	3,982,820	9/28/76	Hattori	359	74	
	4,640,583	2/3/87	Hoshikawa	359	82	-
	4,796,979	1/10/89	Tsuboyama	359	79	
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	5,212,575	5/18/93	Kojima	359	82	,
	5,227,900	7/13/93	Inaba	359	56	
	5,412,494	5/2/95	Ishiwata	359	67	
	5,469,281	11/21/95	Katakura	345	97	
	5,339,306	8/16/94	Yoshenaga	369	275.1	
PN	5,473,449	12/5/95	Takemura	359	56	_

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Document Number	Date	Country	Class	Subclass	<u>Translatio</u> Yes No	
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Antiferroelectric Chiral Smectic Phases Responsible for the Tristable Switching in MHPOBC,
A.D.L. Chandani, E. Gorecka, Y. Ouchi, H. Takezoe, A. Fukuda, Tokyo Inst. of Tech. 6/12/89. pgs
34-37

Examiner DNGWEN

Date Considered

12/67/00

\*EXAMINER: Initial if citati in considered, whether or not citati in is in conformance with MPEP 609; Draw line through citation if not in confirmance and not considered. Include copy of this form with next communication to applicant.

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U.S. Department of Commerce Patent and Trademark Office

Attorney D ck t N . 0756-1790

Serial No. Not Yet Assigned

#### INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Toshimutsu KONUMA et al.

Filing Date: April 14, 1998

Group: 2515

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\*EXAMINER: Initial if citation considered, wheth r or not citation is in conformanc with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet <u>1</u> of <u>5</u> Serial No. 09/059,562

(Rev. 8-83)	Patent and Trademark Office		Applicants: Toshimitsu	KONUMA,	et al.		
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	Ţ	J.S. PATENT	DOCUMENTS				
Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing (if app	
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DW	5,389,287	02/14/95	Nishiyama et al.	252	299.01	-	
DN	5,473,450	12/05/95	Yamada et al.	349	86		
0~	5,541,747	07/30/96	Nishi et al.	349	49		
DW	5,552,913	09/03/96	Shimizu et al.	349	153		
DW	5,594,569	01/14/97	Konuma et al.	349	122		
DN	5,638,194	06/10/97	Yamada et al.	344	86		
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	Document Number	Date	Country	Class	Subclass	<u>Transla</u> Yes	ation No
DN	09-211462	08/15/97	Japan			Abstract	
	88/08552	11/03/88	WIPO			English Abstract	<del>  -</del>
	02-503360 06-040931	10/11/90 05/31/94	Japan Japan	+=		Abstract	_
-  -  -	07-013143	01/17/95	Japan			Abstract	┢
	06-331948	12/02/94	Japan		_	Abstract	
₽ <b>~</b>	06-214218	08/05/94	Japan			Abstract	
DIV O	THER DOCUMENTS (Included Michio Shimizu, et al., "CHARAC CURABLE RESIN," Mol. Cryst. Li	TERISTIC OF A N	NOVEL LIQUID CRYSTAL	CELL WITH	MIXTURE C		D U.
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Sheet 2 of 5

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AN	06-186533	07/08/94	Japan			Abstract	
	06-160824	06/07/94	Japan	<del>                                     </del>		Abstract	
	06-242409	09/02/94	Japan	<del>  =</del>	1 = -	Abstract Abstract	
	06-289372	10/18/94	Japan	<del></del>	<del>                                      </del>	Abstract	
	06-301015	10/28/94	Japan	+		Abstract	
DO	06-301039 06-337405	10/28/94 12/06/94	Japan Japan	<del></del>	-	Abstract	
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(Use several sheets if necessary)

Filing Date: April 14, 1998

Group: 2872

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DN	06-337418	12/06/94	Japan	_	_	Abstract	
j	06-347807	12/22/94	Japan	-	~	Abstract	
	06-160812	06/07/94	Japan	~	-	Abstract	
	05-045636	02/26/93	Japan		_	Abstract	
	05-297364	11/12/93	Japan	-	-	Abstract	
	04-243228	08/31/92	Japan	<del>,</del>	-	Abstract	
BN	04-362918	12/15/92	Japan		_	Abstract	·

**OTHER DOCUMENTS** (Including Author, Title, Relevant Pages, Date, Place of Publication)

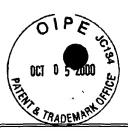
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Date Considered

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Patent Number

(Rev. 8-83)

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Sheet <u>4</u> of <u>5</u> Serial No. 09/059,562 Atty. Docket No: 0756-1790 Applicants: Toshimitsu KONUMA, et al. Group: 2872 Filing Date: April 14, 1998 **U.S. PATENT DOCUMENTS** Patentee Class Subclass Filing Date (if approp.)

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	Document Number	Date	Country	Class	Subclass	<u>Transla</u> Yes	tion No
DW	62-007022	01/14/87	Japan	~	_	Abstract	
	63-198024	08/16/88	Japan		_	Abstract	
	01-055527	03/02/89	Japan	~	_	Abstract	
	01-120532	05/12/89	Japan	_	_	Abstract	
	02-137819	05/28/90	Japan		-	Abstract	
	03-223809	10/02/91	Japan	_	-	Abstract	
<b>₽~</b>	0 404 575	12/27/90	EPO		_	English	

OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)

DNG V YEN Date Considered Examiner

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Sheet <u>5</u> of <u>5</u> Serial No. 09/059,562 Atty. Docket No: 0756-1790 Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office Applicants: Toshimitsu KONUMA, et al. (Rev. 8-83) INFORMATION DISCLOSURE STATEMENT Group: 2872 Filing Date: April 14, 1998 (Use several sheets if necessary) U.S. PATENT DOCUMENTS Filing Date Patentee Class Subclass Patent Number Issue Examiner (if approp.) Date Initial FOREIGN PATENT DOCUMENTS Subclass **Translation** Class Document Number Date Country Yes Abstract DW 04-136814 05/11/92 Japan OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication) DNGMEN 12/01/00 Date Considered Examiner \*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 1 of 5

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	U.S.	PATENT I	OCUMENTS		<del></del>	
Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
	. 5,270,846	12/14/93	Watanabe et al.			
	5,354,497	10/11/94	Fukuchi et al.	ì		l
	5,389,287	02/14/95	Nishiyama et al.			
	5,473,450	12/05/95	Yamada et al.			
	5,541,747	07/30/96	Nishi et al.			
	5,552,913	09/03/96	Shimizu et al.	l		
	5,594,569	01/14/97	Konuma et al.			
<del></del>	5,638,194	06/10/97	Yamada et al.			
	5,739,882	04/14/98	Shimizu et al.			
	3,739,082	04/14/96	Similiza et al.			
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	FOREI	GN PATEN	T DOCUMENTS			
	Document Number	Date	Country	Class	Subclass	<u>Translation</u> Yes No
	9-211465	08/15/97	Japan			Abstract
	WO 88/08552	11/03/88	WIPO			English
	2-503360	10/11/90	Japan			Abstract
	6-40931	05/31/94	Japan			Abstract Abstract
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<del></del>	6-214218	08/05/94	Japan	İ		Abstract
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	Michio Shimizu, et al., "CHARACTER CURABLE RESIN," Mol. Cryst. Liq. Cr	ISTIC OF A N	OVEL LIQUID CRYSTAL (	CELL WITH	MIXTURE C	OF FLC AND U.V.
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	6-186533	07/08/94	Japan			Abstract	
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	6-242409	09/02/94	Japan			Abstract	
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	6-301015	10/28/94	Japan			Abstract	
	6-301039	10/28/94	Japan			Abstract	
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	6-337418	12/06/94	Japan			Abstract				
	6-347807	12/22/94	Japan			Abstract				
	6-160812	06/07/94	Japan			Abstract Abstract				
	5-45636	02/26/93	Japan Japan			Abstract				
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Sheet <u>4</u> of <u>5</u>

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	FOREIG	SN PATEN	NT DOCUMENTS			
	Document Number	Date	Country	Class	Subclass	<u>Translation</u> Yes No
	62-7022	01/14/87	Japan			Abstract
	63-198024	08/16/88	Japan			Abstract
431	01-05527 01-120532	03/02/89 05/12/89	Japan Japan			Abstract Abstract
	02-137819	05/28/90	Japan			Abstract
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	04-136814 05	5/11/92	Japan			Abstract
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Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing I (if appr	
IIIIII	5,270.846	12/14/93	Watanabe et al.				
	5,354,497	10/11/94	Fukuchi et al				
	5,389,287	02/14/95	Nishiyama et al.				
	5,473,450	12/05/95	Yamada et al.				
	5,41,747	07/30/96	Nishi et al.				
		09/03/96	Shimizu et al.				
	5,552,913		Konuma et al				
<u></u>	5,594,569	01/14/97		+			
	5,638,194	<del></del>	Yamada et al.				
	5,739,882	-04/14/98	Shimizu et al.				
	5,739,882		Shimizu et al.  NT DOCUMENTS  Country	Class	Subclass	Transla	
	FORE  Document Number	Date	NT DOCUMENTS  Country	Class	Subclass	Yes	
	5,739,882  FORE  Document Number  9-211465	Date 08/15/97	NT DOCUMENTS  Country  Japan	Class	Subclass		
	5,739,882  FORE  Document Number  9-211465  WO 88/08552	Date 08/15/97 11/03/88	Country  Japan WIPO	Class	Subclass	Yes Abstract	
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Rev. 8-83   Patent and Trademark Office   Applicants: Toshimitisu KONUMA, et al.	Form PTO	Form PTO-1449 U.S. Department of Commerce		Atty. Docket No: 0/56-1/90   Serial No. 09/059,362			09/059,562	
Filing Date: April 14, 1998   Group: 2872				Applicants: Toshimitsu	KONUMA,	et al.		
Document Number   Date   Patentee   Class   Subclass   Filing Date (if approp.)	·			Filing Date: April 14, 1998 Gr			Group: 2872	
Patent Number	(Use severa	is sheets if necessary)		<u> </u>		<u></u>		
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10/18/94   Japan   Abstract			06/07/94	Japan			Abstract	
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Form PTO-1449 U.S. Department of Commerce		Atty. Docket No: 0/36-1/90 Senai No. 09/039,302					
(Rev. 8-83)	Patent and Trademark Office		Applicants: Toshimitsu	KONUMA,	et al.		
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	6-337418	12/06/94	Japan-			Abstract	
	6-347807	12/22/94	Japan			Abstract	
	6-160812	06/07/94	Japan			Abstract	
	<del>-5-45636</del>	02/26/93	- Japan	<del></del>		Abstract	
	5-297364	11/12/93	Japan			Abstract	
	4-243228	08/31/92	- Japan			Abstract Abstract	
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(Rev. 8-83)	Patent and Trademark Office		Applicants: Toshimitsu	KONUMA,	et al.		
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	62-7022	01/14/87	Japan			Abstract	
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	01-055527	<del>-03/02/89</del>	Japan	<del></del>		Abstract	===
	01-120532	05/12/89	- Japan	+	<del> </del>	Abstract Abstract	<del></del>
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